



SOFAR 3k~6kTLM

3000/3680/4000/4600/5000/6000



Single-Phase Dual-MPPT

- Built-in zero export function
- I-V curve scanning function
- IP65 ingress protection
- Super large 4-inch LCD
- Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)

Datasheet	SOFAR 3000TLM	SOFAR 3680TLM	SOFAR 4000TLM	SOFAR 4600TLM	SOFAR 5000TLM	SOFAR 6000TLM
Input (DC)						
Recommended Max. PV input power	3300W	4000W	4400W	5000W	5500W	6400W
Max DC power for single MPPT	2000W	2400W	2600W	3000W	3000W	3150W
Number of independent MPPT	3					
Number of DC inputs	1 for each MPPT					
Max. Input voltage	600V					
Start-up input voltage	120V	120V	120V	120V	120V	120V
Rated input voltage	380V					
MPPT voltage range	80-180V	100-180V	100-180V	100-180V	100-180V	100-180V
Full load DC voltage range	160V-520V	160V-520V	160V-520V	160V-520V	160V-520V	160V-520V
Max. Input current per MPPT	10A/10A	12A/12A	12A/12A	12A/12A	15A/15A	12A/12A
Maximum DC (switch) circuit current per MPPT	11A	14A	16A	18A	18A	18A
Output (AC)						
Rated power	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. Output current	11A	16A	17.5A	20A	21A	26A
Normal grid voltage	L/N/PE, 230Vac, 230Vac, 240Vac					
Grid voltage range	180Vac-276Vac (According to local standard)					
Normal frequency	50Hz/60Hz					
Grid frequency range	50Hz-55Hz/49Hz-60Hz (According to local standard)					
Active power adjustable range	0-100%					
THDi	<3%					
Power factor	1 (adjustable +/0.8)					
Power limit export	Zero export or adjustable power limit export					
Performance						
Max efficiency	97.4%					
European weighted efficiency	97.1% / 97.3%					
Self-consumption at night	<1W					
MPPT efficiency	>99.9%					
Protection						
DC reverse polarity protection	Yes					
DC switch	Optional					
Protection class/overvoltage category	II/III					
Input/output MOV (V)	Yes					
Safety protection	Anti-islanding, RCFI, Ground fault monitoring					
SPD	MDV, type III standard					
Communication						
Power management unit	According to certification and request					
Standard communication mode	RS485, Wifi/Ethernet/GPRS, SD card(optional)					
Operation data storage	25 years					
General Date						
Ambient temperature range	-25°C ~ +60°C					
Topology	Transformerless					
Degree of protection	IP65					
Allowable relative humidity range	0-100%					
Max. Operating altitude	1000m					
Noise	<35dB					
Weight	18kg	18kg	18kg	19kg	19kg	19kg
Cooling	Natural					
Dimension	344*294*170mm					
Display	LCD display					
Warranty	5 years/ 7 years/ 10 years					
Standard						
EMC	EN 61000-6-3, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12					
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068-1, 2, 14, 30					
Grid standards	AS/NZS 4777, VDE V0124-100, V0124-1-1, VDE-AR-N 4105, CEI 0-21, EN50428/EN50429, GB3293, C101-1, HD4999, LITE C11-712-1					